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from both the Sun and the Earth, and it is following the ephemeris very closely.

STURLA EINARSON,
A. ESTELLE GLANCY,
ALICE JOY.
BERKELEY ASTRONOMICAL DEPARTMENT,
May 19, 1907.

NOTE ON COMET *c* 1907 (GIACOBINI).

A preliminary orbit of Comet *c* 1907 has just been completed as this number of the *Publications* is going to press. The three observations used were made June 1st, 3d, and 4th, by GIACOBINI at Nice, HAMMOND at Washington, and AITKEN at Mt. Hamilton, respectively. The elements and an ephemeris are given in *Lick Observatory Bulletin*, No. 116. The observations are represented by a parabola. The inclination of the orbit plane to the ecliptic is 16° ; the longitude of the ascending node is 161° . It was nearest to the Sun on May 27th, at which time it was 117,000,000 miles distant. The comet is faint and is receding from both the Earth and the Sun. At present it is east of the sickle in *Leo*. It is traveling toward β *Leonis*, and on June 21st will be about 5° due north of it.

STURLA EINARSON,
ESTELLE GLANCY.
BERKELEY ASTRONOMICAL DEPARTMENT,
June 5, 1907.

PLANS FOR OBSERVING THE TOTAL ECLIPSE OF JANUARY, 1908.

Arrangements have been completed to dispatch an expedition from the Lick Observatory to observe the total solar eclipse of January 3, 1908. The Moon's shadow will cross the central Pacific Ocean from west to east, and pass over only two known islands. One of these is Flint Island, in longitude $151^\circ 48'$ W. and latitude $11^\circ 26'$ S.,—that is, about 390 miles northwest of the island of Tahiti.

The eclipse will occur at 11:18, local mean time, with the Sun at zenith-distance 15° . The duration given by the American Ephemeris will be $4^m 6^s$.

The generosity of Mr. WILLIAM H. CROCKER has made possible the sending of the expedition.

The expedition will sail from San Francisco on November 22d for Tahiti. The problem of transportation from Tahiti to Flint Island and return was a difficult one, but the interest of the Navy Department of the United States Government was enlisted, and the U. S. gunboat "Annapolis" has been detailed to meet the expedition at Tahiti, transport it to Flint Island,

re-embark the expedition after the eclipse, and return it to Tahiti. The "Annapolis" is stationed regularly at Pago-Pago, island of Tutuila, and will be in personal command of his Excellency, Governor MOORE, of Tutuila, while on eclipse duty.

A later statement will describe the personnel and scientific plans of the expedition.

It seemed to me very important that the scientific programme should include a bolometric survey of the solar corona, similar to that inaugurated by Professor ABBOT at the eclipse of 1900. There is certainly no one more competent to undertake this survey than Mr. ABBOT himself. Accordingly, I brought the subject and the arrangements outlined above to the attention of Secretary Walcott of the Smithsonian Institution and Director ABBOTT of the Astrophysical Observatory of the Institution, and they have been so good as to plan for an expedition to secure the bolometric observations. The two expeditions are essentially independent, scientifically, but are united in traveling and subsistence arrangements.

W. W. CAMPBELL.

CHANGES IN THE LICK OBSERVATORY STAFF.

Mr. JAMES D. MADDRILL, Fellow in the Lick Observatory during the past four years, received the degree of Doctor of Philosophy from the University of California in May, 1907. His thesis relates to a photometric and spectrographic study of a number of well-known variable stars of the δ *Cephei* type. An abstract of the thesis will be found in a later number of these *Publications*. Dr. MADDRILL has been appointed astronomer in charge of the International Latitude Observatory at Ukiah, California, in succession to Dr. S. D. TOWNLEY.

Mr. J. C. DUNCAN, former Fellow in the Lowell Observatory, and at present Instructor in Mechanics and Astronomy in the University of Indiana, has been appointed Fellow in the Lick Observatory for the year 1907-1908.

W. W. CAMPBELL.

APPLICATIONS.

Applications are desired for the position of Assistant in the Lick Observatory, and for the position of Fellow in the Lick Observatory. For particulars, address The Director.

W. W. CAMPBELL.